

Amendments to the claims

1-163. (Cancelled)

164. (Previously presented) A quantum device comprising a conductor, wherein the conductor comprises a cut single-wall carbon nanotube.

165. (Cancelled)

166. (Previously presented) An integrated circuit comprising a plurality of molecular wires, wherein the molecular wires comprise cut single-wall carbon nanotubes.

167-169. (Cancelled)

170. (Previously presented) An RF shielding device comprising a plurality of single-wall carbon nanotubes, wherein the single-wall carbon nanotubes have been purified and cut, and wherein the purified and cut single-wall carbon nanotube have a homogeneous characteristic selected from the group consisting of lengths, diameters, helicities, end derivatization and combinations thereof.

171. (Previously presented) A microwave absorbing material comprising a plurality of single-wall carbon nanotubes, wherein the single-wall carbon nanotubes have been purified and cut, and wherein the purified and cut single-wall carbon nanotube have a homogeneous characteristic selected from the group consisting of lengths, diameters, helicities, end derivatization and combinations thereof.

172. (Previously presented) A hydrogen storage device comprising a plurality of single-wall carbon nanotubes, wherein the single-wall carbon nanotubes have been purified and cut, and wherein the purified and cut single-wall carbon nanotube have a homogeneous characteristic selected from the group consisting of lengths, diameters, helicities, end derivatization and combinations thereof.

173. (Previously presented) A battery comprising a plurality of single-wall carbon nanotubes, wherein the single-wall carbon nanotubes have been purified and cut, and wherein the purified and cut single-wall carbon nanotube have a homogeneous characteristic selected from the group consisting of lengths, diameters, helicities, end derivatization and combinations thereof.
174. (Previously presented) A fuel cell comprising a plurality of single-wall carbon nanotubes, wherein the single-wall carbon nanotubes have been purified and cut, and wherein the purified and cut single-wall carbon nanotube have a homogeneous characteristic selected from the group consisting of lengths, diameters, helicities, end derivatization and combinations thereof.
- 175-195. (Cancelled)
196. (New) The hydrogen storage device of Claim 172, wherein the single-wall carbon nanotubes are operable to store hydrogen that is stored in the hydrogen storage device.
197. (New) The battery of Claim 173, wherein single-wall carbon nanotubes are operable as a hydrogen storage device within the battery.
198. (New) The fuel cell of Claim 174, wherein the single-wall carbon nanotubes are operable to store hydrogen in the fuel cell.